

# PasLite Test for Dairy Products

3  
minutes

## Product Overview



The **PasLite Test** is an internationally accepted method used by dairies and food manufacturers to verify HTST pasteurization for many types of dairy products, including fluid white milk, flavored dairy, non-flavored dairy, and solid/semi-solid dairy, such as cheese and ice cream. The PasLite test verifies the completeness of milk pasteurization by detecting Alkaline Phosphatase. Alkaline Phosphatase is a natural milk enzyme that is destroyed by conventional pasteurization. This makes Alkaline Phosphatase an excellent marker to verify destruction of pathogenic microorganisms in HTST pasteurized dairy products.

PasLite is granted approval by US National Conference of Interstate Milk Shipments (NCIMS), New Zealand Ministry of Agriculture and Forestry (MAF), and Tasmanian Dairy Industry Authority (TDIA).

### Benefits of PasLite Test Include:

- Results in 3 minutes
- Fluid whites, creams, flavored milks, cheeses, and more
- Detection Limit: 20 mU/L (approximately 0.002% raw milk)
- Ability to run 6 samples at once
- NCIMS, MAF, and TDIA Approved
- Approved International Standard (ISO 22160/IDF 209)

## Simple Procedure



Combine sample and  
Reagent AP.



Incubate.



Add stopping  
solution.



Read using the Charm II  
system or novaLUM® system.

## Integration with HARCP

Hazard Pathogens, e.g.	Control Measures	CCP Parameters	Critical Limits	Target Values	HARCP Tests	Corrective Action
Listeria Salmonella Brucella Yersinia <i>E.Coli</i> <i>S. Pyogenes</i> <i>S. Aureus</i> Campylobacter	Correct Design & Operation HTST unit  System validation with PasLite when seal broken	Time Temperature  Definition EE. Section I, P.M.O. Not applicable at higher temperatures with less than 2 second hold time	Not less than 72 °C or 161 °F for 15 secs  Less than 350 mU/L Alkaline Phosphatase	e.g., 73 °C/163 °F for 15 secs  0 to 43 mU/L  Alkaline Phosphatase values greater than 100 mU/L should be investigated	Time/Temp/Flow Rate  Record of non-conformance > 350 mU/L PasLite result.	Repasteurize  Determine Phosphatase Type:  <i>Residual Microbial Reactivated</i>

## Ordering Info

Order Codes	Each Kit Includes
<b>PAS-ISO-25K</b> <b>PAS-ISO-100K</b> <b>PAS-ISO-500K</b>	Reagent AP, Stopping Solution, Calibrator Tablets, Microtube Adapter, and Reconstitution Vial with Cap

See Operator's Manual for additional kits and order codes